Astronomy Database

Suthira de Silva | February 9, 2024

AstroObjectCategory

PK	CategoryID	INTEGER
	CategoryName	TINYTEXT

OrbitalInformation

PK	OrbitID	INTEGER
	OrbitName	TINYTEXT
	Eccentricity	REAL
	Perihelion	REAL
	Aphelion	REAL
	SemiMajor	REAL
	SemiMinor	REAL
	Foci	REAL

LocationAndVisibility

PK	LocationID	INTEGER
	Location	TEXT
	VisibilityStartDate	DATE
	VisibilityEndDate	DATE
	BestTimeToObserve	TIME

InformationOfDiscovery

PK	DiscoveryInfoID	INTEGER
	Discoverer(s)	TEXT
	DateFirstObserved	DATE
	Probe/MachineryUsed	TEXT
	Organization(s)Involved	TEXT

ChemicalComposition

PK	CompositionID	INTEGER
	Composition	TEXT
	PossibilityOfLifeForms	Boolean

PhysicalAttributes

PK	AttributeID	INTEGER
	Mass	REAL
	Diameter	REAL
	Circumference	REAL
	DistanceFromEarth	REAL
	GravitationalForce	REAL
	YearsOfLifeSpan	REAL

EMSpectrumInformation

PK	EMSinfoID	INTEGER
	Luminosity	REAL
	SurfaceColor	TINYTEXT
	SurfaceTemperature	REAL
	SpectralClass	TINYTEXT
	TypesOfEMSReleased	TEXT

GeneralInformation

PK, FK	ObjectID	INTEGER
PK, FK	CategoryID	INTEGER
FK	OrbitID	INTEGER
FK	LocationID	INTEGER
FK	DiscoveryInfoID	INTEGER
FK	CompositionID	INTEGER
FK	AttributeID	INTEGER
FK	EMSinfoID	INTEGER

Galaxies

PK	GalaxyID	INTEGER
	GalaxyName	TINYTEXT

StarSystems

PK	StarSystemID	INTEGER
	StarSystemName	TINYTEXT
FK	GalaxyID	INTEGER

Planets

PK	PlanetID	INTEGER
	PlanetName	TINYTEXT
FK	StarSystemID	INTEGER

Moons

PK	MoonID	INTEGER
	MoonName	TINYTEXT
FK	PlanetID	INTEGER

Asteroids

PK	AsteroidID	INTEGER
	AsteroidName	TINYTEXT
FK	StarSystemID	INTEGER

Comets

PK	CometID	INTEGER
	CometName	TINYTEXT
FK	StarSystemID	INTEGER

ProbesAndSatellites

PK	ProbeSatelliteID	INTEGER
	ProbeSatelliteName	TINYTEXT
FK	StarSystemID	INTEGER

NeutronStars

PK	NeutronStarID	INTEGER
	NeutronStarName	TINYTEXT
FK	StarSystemID	INTEGER

Nebulas

PK	NebulaID	INTEGER
	NebulaName	TINYTEXT
FK	StarSystemID	INTEGER

BlackHoles

PK	BlackHoleID	INTEGER
	BlackHoleName	TINYTEXT
FK	StarSystemID	INTEGER

SuperNovas

PK	SuperNovaID	INTEGER
	SuperNovaName	TINYTEXT
FK	StarSystemID	INTEGER

WhiteDwarfs

PK	WhiteDwarfID	INTEGER
	WhiteDwarfName	TINYTEXT
FK	StarSystemID	INTEGER

DwarfPlanets

PK	DwarfPlanetID	INTEGER
	DwarfPlanetName	TINYTEXT
FK	StarSystemID	INTEGER

Diagram Key

- Categories of objects in Laniakea Galaxy Supercluster
- General Information of different objects
- Astronomical object category
- Orbital information
- Location and visibility
- Discovery information
- Chemical composition
- Physical attributes
- Electromagnetic spectrum information